In the Claims:

Please amend the claims as follows:

1. (Currently Amended) A computer system, comprising:

multiple processors;

- a plurality of resources assigned to node groups;
- a first descriptor of respective topological levels of at least one of the resources; and
- a second descriptor of respective performance of said resources,

wherein the first and second descriptors are produced by firmware in a single computer system.

- 2. (Original) The system of claim 1, wherein said descriptor is a first level data structure, and said second descriptor is a primary data structure.
- 3. (Original) The system of claim 2, wherein said primary data structure comprises a pointer to a secondary data structure.
- 4. (Original) The system of claim 1, further comprising a node identifier for each node for identifying positional placement of a resource.
- 5. (Original) The system of claim 4, wherein said node identifier represents multiple levels of interconnect.
- 6. (Original) The system of claim 1, further comprising a dynamic updator of at least the first and second descriptors.
- 7. (Original) The system of claim 6, wherein said dynamic updator reflects real-time system configuration into the first descriptor.

- 8. (Original) The system of claim 6, wherein said dynamic updator reflects real-time system performance into the second descriptor.
- 9. (Previously Presented) The system of claim 1, wherein said first descriptor includes a pointer to a secondary data structure having a descriptor selected from the group consisting of: processor descriptors, bus descriptors, memory descriptors, and share cache descriptors.
- 10. (Previously Presented) The system of claim 9, wherein said shared cache descriptor reflects interconnects of the system.
- 11. (Original) The system of claim 10, wherein said shared cache descriptor reflects latencies of the interconnects.
- 12. (Previously Presented) The system of claim 1, wherein said second descriptor reflects average latency between the node groups.
- 13. (Currently Amended) An article comprising:

a computer-readable recordable data storage medium readable by a computer having multiple processors and a plurality of resources assigned to node groups;

means in the medium for determining topological levels of at least some of the resources; and

means in the medium for determining performance of said resources, wherein said topological level determining means and said performance determining means are capable of being stored in firmware of a single computer the system.

14. (Canceled) The article of claim 13, wherein the medium is a recordable data storage medium.

- 15. (Canceled) The article of claim 13, wherein the medium is a modulated carrier signal.
- 16. (Original) The article of claim 13, wherein said topological level determining means is a first descriptor and said performance determining means is a second descriptor.
- 17. (Original) The article of claim 13, further comprising a node identifier for identifying positional placement of a resource for each node.
- 18. (Previously Presented) The article of claim 16, wherein said first descriptor includes a pointer to a secondary data structure having a descriptor selected from the group consisting of: processor descriptors, bus descriptors, memory descriptors, and share cache descriptors.
- 19. (Currently Amended) The article of claim 13, wherein said <u>a</u> shared cache descriptor reflects interconnect of resources.
- 20. (Original) The article of claim 19, wherein said shared cache descriptor reflects latencies of the interconnects.
- 21. (Previously Presented) The article of claim 16, wherein said second descriptor reflects average latencies between node groups.
- 22. (Currently Amended) A method for enabling allocation of resources in a multiprocessor, comprising:

assigning multiple resources into node groups; and maintaining system resource topology and performance descriptions as at least one data structure produce by firmware in a single computer system.

- 23. (Original) The method of claim 22, further comprising traversing the data structure to enable allocation of at least some of the resources.
- 24. (Original) The method of claim 22, wherein said traversal step includes accessing a second data structure.
- 25. (Previously Presented) The method of claim 24, wherein said second data structure is selected from the group consisting of: processor descriptors, bus descriptors, memory descriptors and shared cache descriptors.
- 26. (Previously Presented) The method of claim 24, wherein said second data structure includes a shared cache descriptor for describing at least part of a system interconnect including latency between sibling nodes.
- 27. (Original) The method of claim 22, further comprising maintaining at least average latency between at least two of the nodes.
- 28. (Original) The method of claim 22, wherein said traversal step includes recursively accessing additional data structure levels.